

CLAIMS

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5 1. A method for making injection moulds, said method
comprising the steps of
receiving a product pattern,
defining function holes and function recesses, and
defining, separate from and parallel to the con-
struction of function holes and function recesses, a pro-
duct cavity and, a parting plane of the mould.

15 2. A method as claimed in claim 1, wherein the defi-
nition of function holes and function recesses is carried
out in a first mould pattern, and the definition of the
product cavity as well as the parting plane of the mould
is carried out in a second mould pattern.

20 3. A method as claimed in claim 1 or 2, further com-
prising the step of defining a coordinate system of the
product pattern before the steps of defining function
holes and function recesses and defining the product
cavity and the parting plane of the mould are carried
out, said coordinate system being defined so that the
origin of coordinates is available within a two-dimen-
sional projection of the product pattern.

25 4. A method as claimed in any one of claims 1-3,
further comprising the steps of
generating data regarding function holes and func-
tion recesses from the first mould pattern for machining
of the intended injection mould,
generating data regarding the product cavity and the
30 parting plane of the mould from the second mould pattern
for machining of the intended injection mould,
machining a blank for the intended injection mould
by means of said data regarding function holes and func-
tion recesses independently of the data generated from
35 the second mould pattern, and
machining a blank for the intended injection mould
by means of said data regarding the product cavity and

the parting plane of the mould independently of the data generated from the first mould pattern.

5. An injection mould, characterised in that

5 it comprises at least five modules which are aligned with each other, the five modules being

a first mould module and a second mould module to form a product cavity,

a drive module for driving of sliders,
10 an engaging module adapted, by application of a force, to prevent dividing between the first and the second mould module when introducing product material into the product cavity, and

an ejector module for ejecting a completed product
15 from one of the first and the second mould module.

6. An injection mould as claimed in claim 5, further comprising a distributing module for initial receiving and forwarding of product material for injection moulding.

20 7. An injection mould as claimed in claim 5, wherein the first and second mould modules each comprise at least one cooling channel in the form of a groove which is arranged on the opposite side of the mould modules in relation to the side having product recesses to form a
25 product cavity.

8. A method for making injection moulds comprising a plurality of modules, said method comprising the step of mechanically machining a plurality of modules essentially simultaneously.

30 9. A method as claimed in claim 8, wherein the step of mechanically machining a plurality of modules essentially simultaneously further comprises the step of mechanically machining at least a first^{1,2} mould module and a drive^{1,4} module essentially simultaneously.

35 10. A method as claimed in claim 8 or 9, wherein the step of mechanically machining a plurality of modules essentially simultaneously further comprises the step of

mechanically machining at least a second mould module, an ejector module and an engaging module essentially simultaneously.

11. A method for making injection moulds for injection moulding of mobile phone components comprising the steps as claimed in claim 1 or claim 8.

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